

Title (en)

APPARATUS FOR A RAPID DETERMINATION OF THE RHEOLOGICAL PROPERTIES OF THERMOPLASTIC MATERIALS

Publication

**EP 0210689 B1 19891213 (FR)**

Application

**EP 86201191 A 19860708**

Priority

FR 8511146 A 19850718

Abstract (en)

[origin: US4680958A] Apparatus composed of a control and monitoring unit 1, a thermostated cylinder 2 receiving a measured quantity of material to be evaluated, a plunger 3 sliding in the cylinder 2, an exchanger system enabling the cylinder 2 to be equipped with a suitable die 6 for the measurement to be carried out, a stepping-control motor 7 ensuring a monitored travel of the plunger 3, a force-sensor 9 yielding a signal as a function of the force applied to the plunger 3, and an electronic microprocessor system monitoring the stepping motor 7 as a function of the position of the piston and/or of the signal emitted by the force-sensor 9 at the end of the time assigned to the thermal conditioning of the measured quantity to be evaluated, the plunger 3 is situated at a distance from the die 6 permitting the measurement and acts for 10 to 180 seconds on the measured quantity according to a parameter of the speed of travel of the plunger or of the applied force specified by the measurement to be carried out.

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**G01N 11/04**; **G01N 33/44**

IPC 8 full level

**B29C 48/92** (2019.01); **G01N 11/04** (2006.01); **G01N 33/44** (2006.01)

CPC (source: EP KR US)

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Cited by

EP0483619A3; US5016467A; CN102713559A; EP0489662A1; FR2670289A1; EP0311300A3; GB2210466A; US4933886A; GB2210466B; FR2974177A1; WO2011065932A2; WO2014083039A1; WO2011065932A3; WO2012143196A1

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